

Title (en)

ANTHRACENYL-TETRALACTAM MACROCYCLES AND THEIR USE IN DETECTING A TARGET SACCHARIDE

Title (de)

ANTHRACENYL-TETRALACTAM-MAKROCYCLEN UND IHRE VERWENDUNG BEIM NACHWEIS EINES ZIELSACCHARIDS

Title (fr)

MACROCYCLES ANTHRACÉNYLE-TÉTRALACTAME ET LEUR UTILISATION DANS LA DÉTECTION D'UN SACCHARIDE CIBLE

Publication

**EP 2855439 B1 20170614 (EN)**

Application

**EP 13727309 A 20130426**

Priority

- GB 201207392 A 20120427
- GB 2013051079 W 20130426

Abstract (en)

[origin: WO2013160701A1] A water-soluble compound of the formula (I): (Formula (I)) wherein R9 and R10 are suitably hydrophilic substituents, which may be used to selectively bind to a target saccharide such as glucose and which exhibits a detectable spectroscopic response to such binding, thus enabling its use in the detection and correction of blood glucose concentrations in vivo.

IPC 8 full level

**C07D 257/10** (2006.01); **G01N 33/66** (2006.01)

CPC (source: CN EP GB US)

**A61B 5/14532** (2013.01 - US); **A61B 5/1455** (2013.01 - US); **A61K 49/0004** (2013.01 - US); **C07D 257/10** (2013.01 - CN EP GB US); **G01N 33/52** (2013.01 - CN EP GB US); **G01N 33/66** (2013.01 - CN EP GB US); **G01N 2800/042** (2013.01 - CN EP GB US)

Citation (examination)

CHENFENG KE ET AL: "A simple and accessible synthetic lectin for glucose recognition and sensing", NATURE CHEMISTRY, vol. 4, no. 9, 5 August 2012 (2012-08-05), GB, pages 718 - 723, XP055243163, ISSN: 1755-4330, DOI: 10.1038/nchem.1409

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2013160701 A1 20131031**; AU 2013254450 A1 20141127; CA 2910581 A1 20131031; CN 104428290 A 20150318; CN 104428290 B 20171114; EP 2855439 A1 20150408; EP 2855439 B1 20170614; GB 201207392 D0 20120613; GB 201420937 D0 20150107; GB 2517345 A 20150218; HK 1209112 A1 20160324; IN 9830DEN2014 A 20150807; US 2015147275 A1 20150528; US 2017266321 A1 20170921; US 9610365 B2 20170404; US 9937272 B2 20180410

DOCDB simple family (application)

**GB 2013051079 W 20130426**; AU 2013254450 A 20130426; CA 2910581 A 20130426; CN 201380034334 A 20130426; EP 13727309 A 20130426; GB 201207392 A 20120427; GB 201420937 A 20130426; HK 15109782 A 20151007; IN 9830DEN2014 A 20141120; US 201314397254 A 20130426; US 201715445710 A 20170228